

Beomaster 5500

Owner's manual

How to use this manual

*This manual explains how to set up the **Beomaster 5500** receiver
and how to use the few controls available on the front panel.*

- It gives a detailed description of all the sockets on the rear and for which purposes they must be used.
- It also explains the meaning of the cues on the display panel on the front.

For detailed operating instructions, please refer to the Master Control Panel 5500 manual.

Where to put the Beomaster, 4

Connections, 6

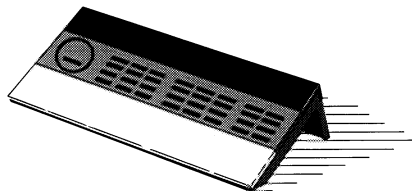
Stand-by mode, 8

How to use the controls, 9

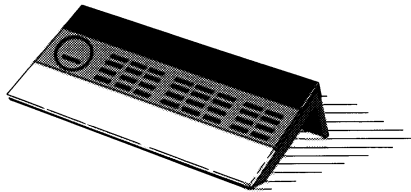
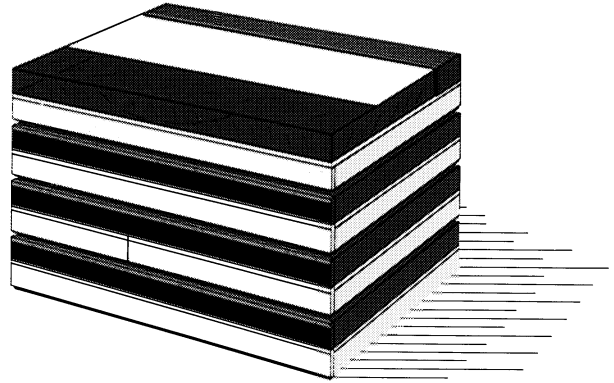
Displayed cues and symbols, 10

Connecting headphones, 11

Technical specifications, 12



Beosystem 5500



The Beosystem 5500 is easy and very convenient to use - you can in fact operate the whole system without leaving your chair.

The Master Control Panel 5500 is the key to the system and it communicates with the brain of the system, the Beomaster 5500. Together they form the basis of the system. The other units in the system, the Beocord 5500, the Beogram 5500 and the Beogram CD5500, are modules with which you can extend your Beosystem 5500.

The Beomaster 5500 is a so-called Beolink product, which means that it can be used as a master in a Bang & Olufsen Beolink system. In a Beolink system video and audio products are interconnected and they can be operated using only one remote control unit – the Beolink 1000. For further information about setting up and operating the Beolink system, please refer to the special Beolink manuals.

Where to put the Beomaster



The Beomaster must be placed horizontally on a stable surface. Make sure to put it in a place

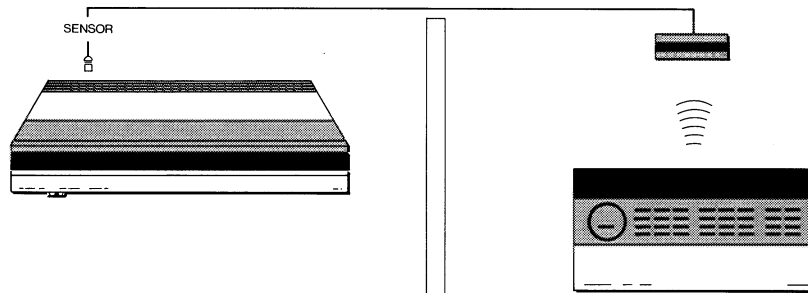
where ventilation cannot be impeded. Avoid placing it in direct sunlight or near radiators or other sources of heat.

If your Beosystem includes other units, you can place them on top of each other, as in a rack system, or next to one another.

The Beomaster must be placed so that the distance from the the Master Control Panel is no longer than 25 metres. Make sure that they can communicate with each other.

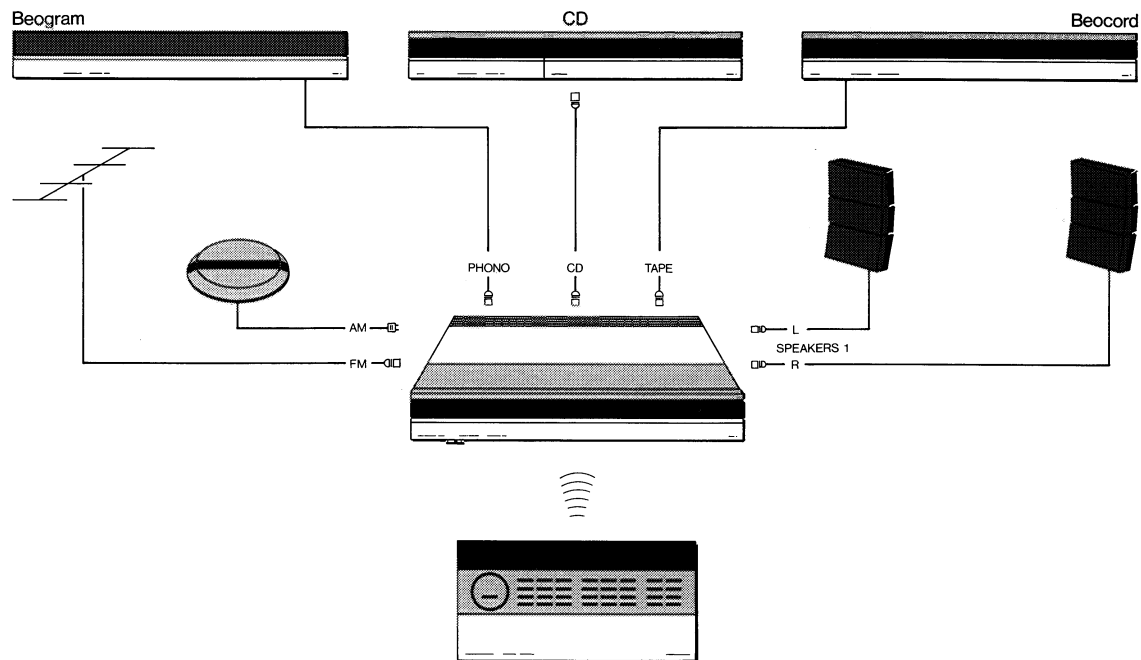
If you want to extend the range of remote

control, e.g. to allow communication round corners, you can connect a specially designed sensor. The sensor (type no. 2001) is available from your Bang & Olufsen dealer.



Before putting the Beomaster in its final place, make sure that you have carried out all the

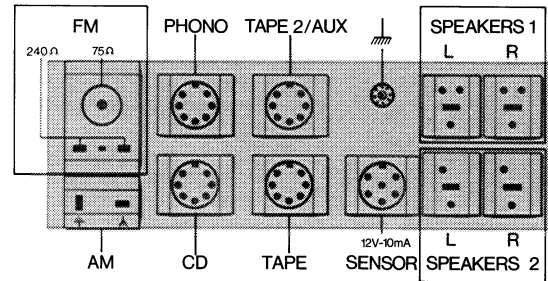
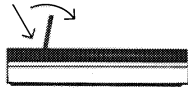
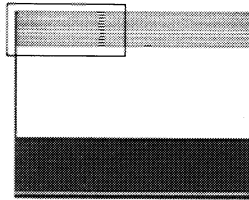
connections required (see the following paragraph).




Connections

Connect loudspeakers, antennae, and the other units in the Beosystem, if any, to the Beomaster **before** connecting it to the mains supply.

To gain access to the sockets, lift up the hinged grille at the rear.



- **FM:**
Sockets for 240 ohm or 75 ohm FM antenna.
- **AM:**
Socket for AM antenna.
- **PHONO:**
7 pin DIN socket for the Beogram 5500, or any other Bang & Olufsen record player with a 7 or 5 pin DIN plug.
- **CD:**
7 pin DIN socket for the Beogram CD 5500 compact disc player.

- **TAPE 2/AUX:**
7 pin DIN socket for
- auxiliary Bang & Olufsen tape recorder with a 7 or 5 pin DIN plug, or
- Beovision LX 2800/2500 or LX/L 2802/2502.
- **TAPE:**
7 pin DIN socket for the Beocord 5500, or any other Bang & Olufsen tape recorder with a 7 or 5 pin DIN plug.
- 
Earthscrew.

● **SENSOR:**

- 6 pin DIN socket for
- the Bang & Olufsen Sensor (type no. 2001)
 - the Bang & Olufsen Remote Mains Switch (type no. 4002). This connection requires an adaptor, Bang & Olufsen part no. 6270349.

● **SPEAKERS 1:**

- Sockets for
- left (L) and right (R) loudspeakers in the same room as the Beomaster, or
 - left (L) and right (R) cable connections for the Bang & Olufsen Beolab Penta power amplifier/loudspeaker module, or
 - left (L) and right (R) cable connections for the Bang & Olufsen Beolab 150 power amplifier.

● **SPEAKERS 2:**

- Sockets for
- left (L) and right (R) loudspeakers in an adjoining room, or
 - left (L) and right (R) cable connections for a Master Control Link installation.

● **PH:**

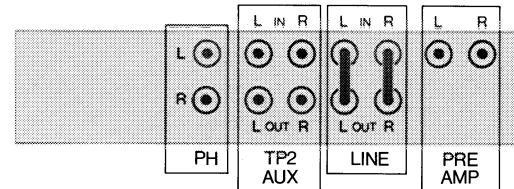
Sockets for record player with phono plugs - L for left channel and R for right channel.

● **TP2/AUX (IN/OUT):**

Sockets for auxiliary tape recorder or compact disc player with phono plugs - L for left channel and R for right channel.

● **LINE (IN/OUT):**

Sockets for equalizer - L for left channel and R for right channel.



● **PRE AMP:**

Sockets for power amplifier - L for left channel and R for right channel.

Stand-by mode

Once connected to the mains supply, the Beomaster is in so-called stand-by mode and ready to be operated with the Master Control

Panel. The stand-by mode is indicated by the tiny red light on the display panel on the front.



How to use the controls

The controls available are on the front panel.

STEP PROGRAM

- A rapid tap switches on the Beomaster on the preset station you were last listening to.
- By tapping repeatedly you can step through the preset stations.

MUTE ●

- A rapid tap switches on the unit you were last listening to at the previously adjusted levels.
- A rapid tap mutes the loudspeakers in the SPEAKERS 1 sockets. Another rapid tap cuts the speakers in again.
- A prolonged pressure switches the Beosystem to stand-by mode.

“TIMER” function

If you programme the system to play at a specific time, both the speakers in the SPEAKERS 1 sockets and those, if any, in the SPEAKERS 2 sockets will function.

However, you can cut out the SPEAKERS 1 socket if you wish so that only the speakers in the SPEAKERS 2 sockets will function when the system starts playing at the specified time.

While keeping the right-hand side of the panel depressed, tap the left-hand side. The TIMER OFF cue now appears, indicating that the TIMER function is cancelled on SPEAKERS 1.

To cut in the TIMER function again, follow the same procedure. The TIMER OFF cue disappears.

Displayed cues and symbols

SPEAKERS 1 sockets
cut out during pro-
grammed play

Automatic Fine Tuning
(AFT) indicator

Indicates preset number,
unprogrammed F(M) or
A(M) station, or sound
values.

Treble adjustment in
progress

Loudness mode indica-
tor

Bass adjustment in pro-
gress

Source indicators

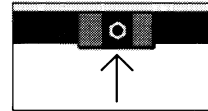
The display on the front of the Beomaster gives information about the operational status of the system.

The cues and symbols displayed will not all be visible at the same time.

Connecting headphones



The tiny socket on the front of the Beomaster is for headphones, e.g. the Bang & Olufsen Form 1 or Form 2 headphones.



If you connect headphones, the speakers in the SPEAKERS 1 sockets are cut out.

Technical specifications

Beomaster 5500	
Type no.	2331/2332/2334/2335
Long-term max. output power IEC	2 x 110 watts/8 ohms
Power output 20-20,000 Hz IHF	2 x 50 watts/8 ohms
Total harmonic distortion IHF	<0.09%/8 ohms 20-20,000 Hz
Dynamic headroom	1.5 dB/8 ohms
Intermodulation IHF	<0.1%
Wideband damping factor	50
Line input sensitivity	25 mV/47 kohms
Signal-to-noise ratio:	
PHONO A-weighted	>78 dB
TAPE A-weighted	>80 dB
Channel separation 10,000 Hz	60 dB
Line output	500 mV/1 kohm
External power amplifier	1 V/1 kohm
FM range	87.5-108 MHz
FM aerial impedance	75 and 240 ohms
Usable sensitivity stereo	19 dBf-2.5 μ V/75 ohms
50 dB quieting sensitivity stereo	40 dBf-28 μ V/75 ohms
Signal-to-noise ratio 65 dBf stereo	70 dB
Frequency response	20-15,000 Hz \pm 1 dB
Distortion at 65 dBf stereo	0.2%
Intermodulation stereo	0.1%
Stereo channel separation	45 dB
LW range	150-350 kHz
MW range	520-1610 kHz
LW sensitivity 20 dB S/N ratio	80 μ V
MW sensitivity 20 dB S/N ratio	60 μ V

Power supply	2331: 220 V
	2332/2335: 240 V
	2334: 100 V
Power frequency	50-60 Hz
Power consumption	Max. 225 watts
Dimensions W x H x D	42 x 7.5 x 32.5 cm
Weight	8.5 kg
Subject to change without notice	

For the UK market only

IMPORTANT

The wires in the mains lead supplied with this apparatus are coloured in accordance with the following code:

Blue: Neutral

Brown: Live

As the colours of the wires in the mains lead may not correspond with the coloured markings identifying the terminals in your unit, proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

Ensure that your equipment is connected correctly. If you are in any doubt, consult a qualified electrician.

International guarantee

This Bang & Olufsen product carries a guarantee against defects in workmanship and materials. It is a national guarantee, extended by Bang & Olufsen to the country in which the product was bought. The terms of the guarantee apply principally to the country of purchase but will be met by authorized Bang & Olufsen dealers in other countries. The guarantee period

applying to the country of purchase takes priority over guarantee periods applying in other countries, even where differences exist.

In order to obtain service under this guarantee from a dealer in a country other than that in which the product was bought, the guarantee form must be completed in full and presented to the dealer.

BANG & OLUFSEN
DK-7600 STRUER
DENMARK

3502567

09-88

How to use this manual

*This manual explains how to set up the **Beocord 5500** tape recorder and how to make use of all the functions available.*

- It also explains the meaning of the cues and symbols on the display panel on the front.
- The instructions refer to the buttons in the drawer. Each button to be pressed is indicated as a small box with the appropriate text or symbol inside it.
- The index at the end of the manual lists all the buttons and controls available and gives the page numbers on which each one of them is referred to.

For operation with the Master Control Panel 5500, please refer to the manual accompanying the Master Control Panel 5500.

Setting up, 6

**Gaining access to tape compartment
and buttons, 8**

Switching on and off, 9

Playing back, 10

Controlling the tape, 11

Recording functions, 13

Special features and functions, 18

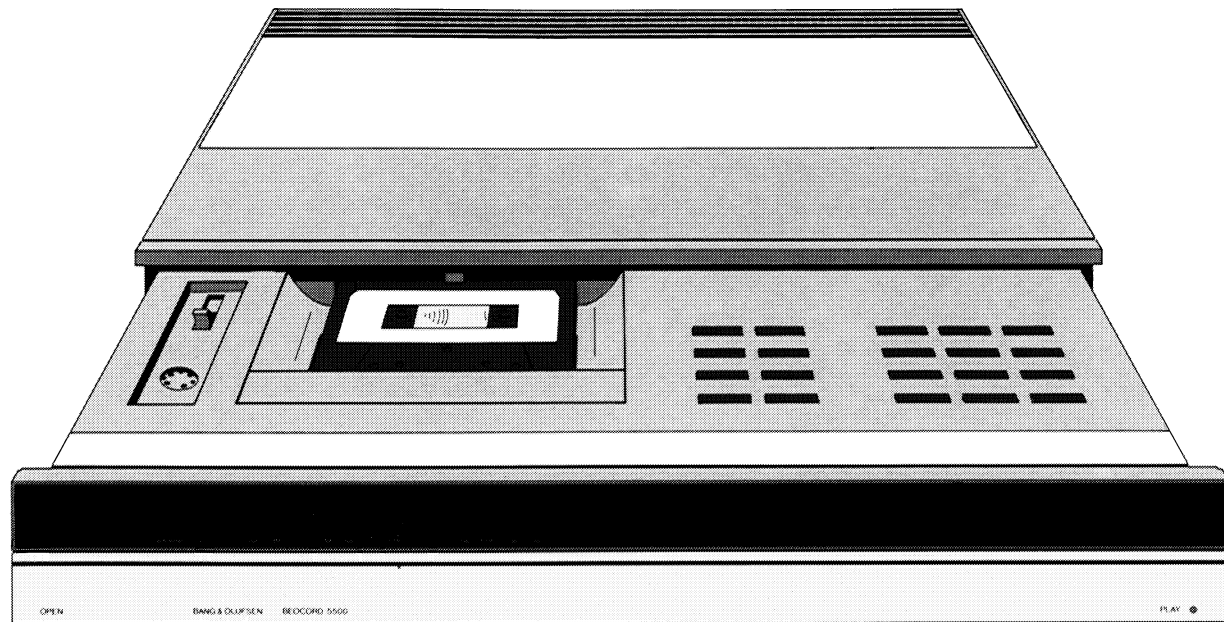
Displayed cues and symbols, 21

**Using the Beocord 5500 in
conjunction with Beosystem 5000, 22**

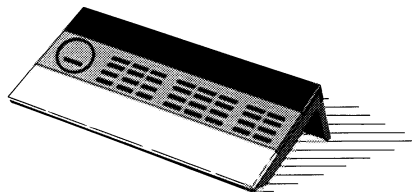
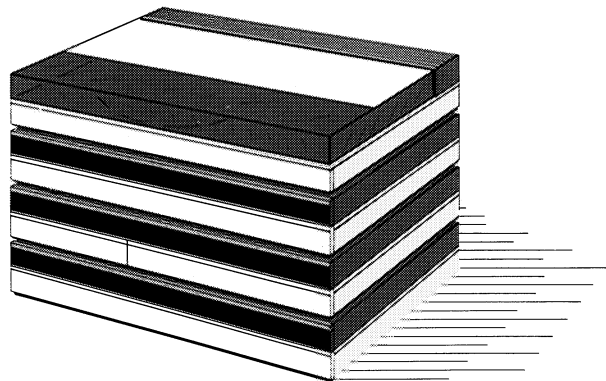
Maintenance, 23

Index of buttons and controls, 24

Technical specifications, 25



Beosystem 5500



The Beosystem 5500 is easy and very convenient to use – you can in fact operate the whole system without leaving your chair.

The Master Control Panel 5500 is the key to the system and it communicates with the brain of the system, the Beomaster 5500. Together they form the basis of the system. The other units in the system, the Beocord 5500, the Beogram 5500 and the Beogram CD 5500, are modules with which you can extend your Beosystem 5500 or use in conjunction with other systems, if you like.

Table of contents

Setting up	6
Where to put the tape recorder	6
Removing the transport screws	6
Connection to receiver	7
Stand-by mode	7
Gaining access to tape compartment and buttons	8
Switching on and off	9
Playing back	10
Controlling the tape	11
Using the automatic tape reverse function	11
Repeating a tape	11
Rewinding and winding	12
Stepping through tracks	12
Memorizing specific points on the tape	12
Recording functions	13
Selecting source to record from	13
Automatic recording	14
Manual recording	14
Manual adjustments during automatic recording	15
Changing the maximum recording level	15
Changing the automatic recording start level	15
Peak hold	16
Inserting blanks of individual lengths	16
Locking the recording function	16

Special features and functions	18
HX Professional	18
Using Dolby NR*	18
Automatic tape type selection	19
Locking the tape recorder in manual mode	19
Reading off signal level in left and right channels	19
Erasing tapes	20
Displayed cues and symbols	21
Using the Beocord 5500 in conjunction with Beosystem 5000	22
Maintenance	23
Index of buttons and controls	24
Technical specifications	25

* Trademark of Dolby Laboratories
Licensing Corporation.
Noise reduction system manufactured
under License from Dolby Laboratories
Licensing Corporation.

Setting up

Where to put the tape recorder



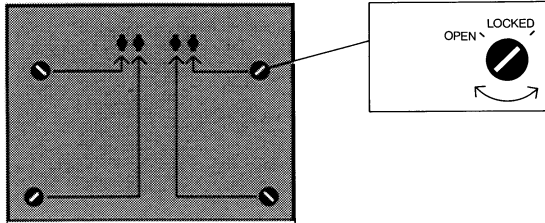
The tape recorder must be placed horizontally on a stable surface. Make sure to put it in a place where ventilation cannot be impeded.

Avoid placing it in direct sunlight or near radiators or other sources of heat.

If your Beocord 5500 is to be used in conjunction with other units in the Beosystem 5500, you may place them on top of each other, as in a rack system, or next to one another.

Make sure that the drawer in the tape recorder can open freely.

Removing the transport screws

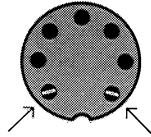


Before using the tape recorder you must remove the four plastic transport screws underneath it.

Carefully turn the tape recorder upside down. Using a coin turn each screw anti-clockwise to the position marked OPEN. Then remove the screws and insert them in the four holes provided for safe keeping.

If you ever have to carry the tape recorder again, we strongly recommend that you reinsert the four transport screws and turn them to the position marked LOCKED.

Connection to receiver



Plug the 7 pin DIN cable into the TAPE 1 socket on the Beomaster 5500.

For use with another receiver, e.g. one having a 5 pin DIN socket or phono sockets, do as follows:

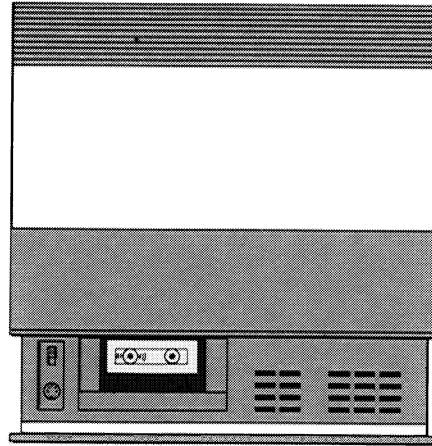
Unscrew the two extra pins with grooves using a tiny screwdriver and plug the cable into the 5 pin DIN socket on the receiver. If your receiver has phono sockets, connect an adaptor (Bang & Olufsen part no. 7229017) and plug it into the phono sockets on your receiver.

Stand-by mode

Once connected to the mains supply, the tape recorder is in so-called stand-by mode and ready to be operated. If connected to the Beomaster 5500, it can be remote-controlled by using the Master Control Panel 5500.

The stand-by mode is indicated by a tiny red light on the display panel on the front.

Gaining access to tape compartment and buttons



Gently tap the left-hand side of the front panel where it is marked OPEN to open the drawer.

The tape compartment, all the buttons, the **LINE/MIC/AUX** switch and the MIC/AUX socket are now visible.

The cassette must be loaded with the tape slots facing you and side 1 (or A) facing upwards. Unload the cassette simply by lifting it out of the compartment. The cassette cannot be


unloaded while the tape is moving, or while the tape recorder is in recording pause mode.

To close the drawer, gently tap the left-hand side of the front panel again.

The drawer may be left open both during playback and recording, if you like. When the tape recorder is switched to stand-by, the drawer will close automatically, however.

Switching on and off

Switch on by gently tapping the right-hand side of the front panel where it is marked PLAY. If there is a cassette in the compartment, playing will start immediately.

You can also switch on just by pressing any of the buttons in the drawer. The tape recorder will then immediately carry out the function desired, e.g. start rewinding if you pressed .

Switch off by gently tapping the right-hand side of the front panel again. This will make the the tape recorder revert to stand-by mode.

Within approximately 30 minutes of tape stop, the tape recorder switches off automatically and reverts to stand-by mode.

Playing back

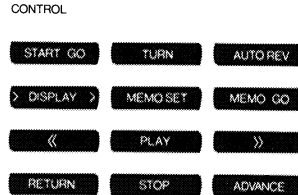
Please ensure that you have placed a cassette in the tape compartment with side 1 (or A) facing upwards.

Start playing by pressing **PLAY** and stop playing by pressing **STOP**.

If you want playing to start at the beginning of the tape, press **START GO**. The tape will then be rewound, if necessary, and playing will start immediately.

If you let the tape recorder stop automatically after playing a tape to the end and you don't remove the cassette, you only have to press **PLAY** to start playing the tape again. The tape recorder then automatically 'turns' the tape and starts playing it, or, if the automatic tape reverse function is cut out, rewinds the tape to the start of the current tape side, and then starts playing it again.

Controlling the tape



Using the automatic tape reverse function

The tape recorder automatically reverses the tape at the end of the first side and within one second starts playing or recording again, as the case may be. You don't have to turn the cassette manually. In order to ensure correct play or recording, however, it is essential to load the cassette with side 1 (or A) facing upwards.

If you don't want the tape to be reversed au-

tomatically, press **AUTO REV**. Press **AUTO REV** once more to cut in the automatic tape reverse function again.

The automatic tape reverse function is indicated by tiny arrows on the right-hand side of the front display.

You can 'turn' the tape at any point just by pressing **TURN**.

Repeating a tape

If you want to play a tape two consecutive times, press **PLAY** a second time.



Both arrows indicating the automatic tape reverse function will now be lit. This means that at the end of side 2 the tape recorder will automatically 'turn' the tape and continue to play from the start of side 1.

If the automatic tape reverse function has

been cut out, the tape recorder will repeat the current side only, i.e. rewind when it reaches the end and then start playing the same side once more.

The repeat function will be cancelled if you use any button which stops, rewinds or winds the tape.

Rewinding and winding



The buttons  and  are used to rewind or wind a tape quickly.

Provided you haven't cut out the automatic tape reverse function, rewinding always means

rewinding towards the start of side 1, and winding always means winding towards the end of side 2.

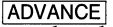
Stepping through tracks

The tape recorder will only be able to recognize the tracks on a tape if there is a pause of at least 2.5 seconds between them.

You can step through the tracks, forwards or backwards, by pressing  or  the number of times required to step to the track you want.


Note: pressing  only once takes you


to the beginning of the current track.


The use of this function is indicated on the front display. Supposing you press  four times to step forwards by four tracks, the display will first indicate four steps and then three, two, one, as the track desired is being approached.


Memorizing specific points on the tape

Specific points on the tape can be memorized for easy retrieval. This can be done both during recording and playback.

When you are at the point you want to memorize, press . Recording or playback continues unaffected.

When you later want to find the memorized point, press . The tape will then be rewound to that point, and playing will start from there.

If you are recording, you first have to stop recording before you can activate .

If you press  once more to memorize another point, the first one will be cancelled.

Unloading the cassette cancels any memorized points.

Recording functions

RECORD

REC LEVEL

DOLBY NR

^ +

REC LOCK

∨ -

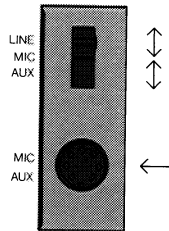
PPM MEMO

MANUAL REC

AUTO REC

Selecting source to record from

Before recording, make sure that the **LINE/MIC/AUX** switch to the left of the tape compartment is set to the correct position:



- **LINE** if recording from one of the other units in the Beosystem 5500, or from any other system to which your Beocord 5500 is connected and which is also designed for LINE level
- **MIC** if recording from a microphone connected to the MIC/AUX socket to the left of the tape compartment
- **AUX** if recording from any other source connected to the MIC/AUX socket, e.g. another tape recorder

We recommend that you get into the habit of always leaving the **LINE/MIC/AUX** switch in its LINE position whenever you have finished a recording.

Automatic recording

If you use the automatic recording facility, you don't have to think about adjusting the recording level. The tape recorder does so automatically.

Press **AUTO REC** to switch to automatic recording mode. Play the source you want to record from, allowing the tape recorder some time to adjust to the recording level. Then press **AUTO REC** again to start recording.

Press **STOP** to pause recording. The tape recorder now inserts a blank of 3.5 seconds on the tape before it stops.

Press **AUTO REC** again if you want to resume recording, or press **STOP** again if you want to leave the recording mode.

During automatic recording the tape recorder automatically ensures that the recording level does not exceed a certain, predetermined value. For further details, see the paragraphs »Changing the maximum recording level« and »Changing the automatic recording start level«.

Manual recording

Using the manual recording facility means that you override the automatic recording level adjustment and adjust the recording level manually.

Press **MANUAL REC** to switch to manual recording mode. You can now read off the level of the source you are going to record from.

Press **REC LEVEL** to see the current setting of the electronic 'potentiometer' on the display. Press **△+** or **▽-** if you want to raise or lower the setting of the 'potentiometer'.

Each time you press either button the level is raised or lowered by one step of 2 dB. Within a few seconds the display gives you the signal level again.

Press **MANUAL REC** again to start recording.

Press **STOP** to pause recording. The tape recorder now inserts a blank of 3.5 seconds on the tape before it stops.

Press **MANUAL REC** again if you want to resume recording, or press **STOP** again if you want to leave the recording mode.

If you are recording from a microphone, we recommend that you use the manual recording facility described in this paragraph. This is because the microphone input is equipped with an automatic adjustment facility of its own (AGC).

Manual adjustments during automatic recording

You can of course do manual adjustments to the recording level any time during automatic recording.

Press **[REC LEVEL]** to see the current setting of the electronic 'potentiometer'. Press **[^+]** or

[v-] if you want to raise or lower the setting of the 'potentiometer'.

You have now disabled the automatic recording function. Just press **[AUTO REC]** again when you want to revert to automatic recording.

Changing the maximum recording level

The maximum recording level is the level at which the 'potentiometer' setting will be lowered automatically during automatic recording. This ensures that your tapes will never be overloaded.

When the tape recorder leaves the factory, the maximum recording level is set to +2 dB.

You can raise or lower this level so that it suits the tapes you are using.

Press **[STOP]** and, while keeping the button depressed, press **[PPM MEMO]**. You will now see the preset maximum level on the display. Within two seconds press **[^+]** to raise the level or **[v-]** to lower the level.

If you disconnect the tape recorder from the mains, the maximum recording level will be reset to +2 dB.

Changing the automatic recording start level

The automatic recording start level is the position which the 'potentiometer' is set to whenever an automatic recording is started.

When the tape recorder leaves the factory the automatic recording start level is set to -4 on the level scale.

You can change this start level if the source you normally record from is either weak or strong. If your source is weak you will have to

raise the level, if your source is strong you will have to lower the level.

Press **[STOP]** and, while keeping the button depressed, press **[REC LEVEL]**. Within two seconds press **[^+]** to raise the level or **[v-]** to lower the level.

If you disconnect the tape recorder from the mains, the automatic recording start level will be reset to the preset level, i.e. -4.

Peak hold

The highest signal level occurring during a recording will be retained on the display while that recording is still in progress. This is also referred to as 'peak hold'.

You can delete the latest peak hold readout by pressing **AUTO REC** again if you are in automatic recording mode or **MANUAL REC** if you

are in manual recording mode. The peak hold readout will then be reset.

Even if the tape recorder has already switched to stand-by mode, you can still obtain a readout of the highest signal level occurring during the latest recording. Just press **PPM MEMO** to reveal it.

Inserting blanks of individual lengths

When you press **STOP** for the first time to pause a recording, the tape recorder automatically inserts a blank of 3.5 seconds. You can override this function and insert blanks of any length desired, or no blanks at all.

Press **STOP** to pause the recording and keep the button depressed for as long as you want the blank to last.

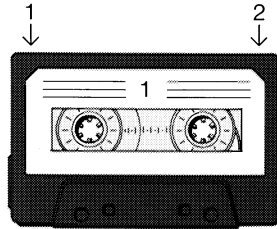
If you want the blank to be shorter than 3.5 seconds, press **STOP** once. Then press **STOP** immediately again and keep it depressed for the one or two seconds you want the blank to last.

If you don't want any blanks at all, simply press **STOP** twice in quick succession.

Locking the recording function

Locking the recording function is useful if you want to avoid the risk of erasing a particular tape by accidentally making another recording on that tape.

After loading the cassette press **REC LOCK**. Now you cannot use the recording function until you remove the cassette from the compartment.



Of course, you can also remove one or both latches on the edge opposite the tape slots on the cassette. The latch in the left-hand side corresponds to side 1 (A), the latch in the right-



hand side corresponds to side 2 (B). This ensures that the tape recorder cannot record on the appropriate side or both sides of the tape.

Special features and functions

HX Professional

Your Beocord 5500 features the HX PRO recording system. HX PRO stands for Professional Headroom Extension.

This automatic circuit, which was developed by Bang & Olufsen in cooperation with the Dolby Laboratories, ensures optimum saturation of the tape, whichever type you are using.

You don't have to use any buttons or

controls, nor do you have to play back your HX PRO tapes on a tape recorder equipped with the HX-PRO recording system, to be able to benefit from it.



Using Dolby NR

Your Beocord 5500 is fitted with Dolby B and C noise reduction facilities. Before making a recording you must decide whether you want to use Dolby B, Dolby C or no Dolby at all.

Press **[DOLBY NR]** repeatedly to switch between the three settings: Dolby B > Dolby C > Dolby off > Dolby B >, etc.

During recording the Beocord 5500 places a code on the tape, which ensures that the same Dolby setting is automatically selected when the tape is played back on the Beocord 5500.

You can override this code, if for some reason you want to play back a tape using another Dolby setting than the one with which the tape was recorded.

Press **[DOLBY NR]** to switch to the Dolby setting of your choice, e.g. Dolby B, but do not release the button. Keep **[DOLBY NR]** depressed for 1.5 seconds until the appropriate cue disappears from the display. Then release the button. When you play back the tape recorded with e.g. Dolby C codes, the DOLBY C cue will blink, but the DOLBY B cue will glow constantly.

Next time you press **[DOLBY NR]** the locked Dolby setting will be released.

Automatic tape type selection

You can use any type of tape in your Beocord 5500: metal, chrome or ferric.

Whichever type you choose, the tape

recorder will register it automatically and make the necessary adjustments. Tape type adjustment is based on the IEC standard.

Locking the tape recorder in manual mode

You can, if you wish, lock the tape recorder in manual recording mode. This means that when you do recordings using the remote control, or when you programme the tape recorder to record from the radio, the recording will take place with the automatic level adjustment cut out.

Press **[STOP]** and while keeping it depressed,

press **[MANUAL REC]**. The Beocord 5500 will now do manual recordings only.

If you want to restore the automatic recording function, press **[STOP]** and while keeping it depressed, press **[AUTO REC]**.

If you disconnect the tape recorder from the mains, the automatic recording function will also be restored.

Reading off signal level in left and right channels

You can read off the signal levels in the two channels separately.

Press **[STOP]** and, while keeping the button depressed, press **[<]** to see the left channel or **[>]** to see the right channel. Proceed to play or record by pressing the appropriate button.

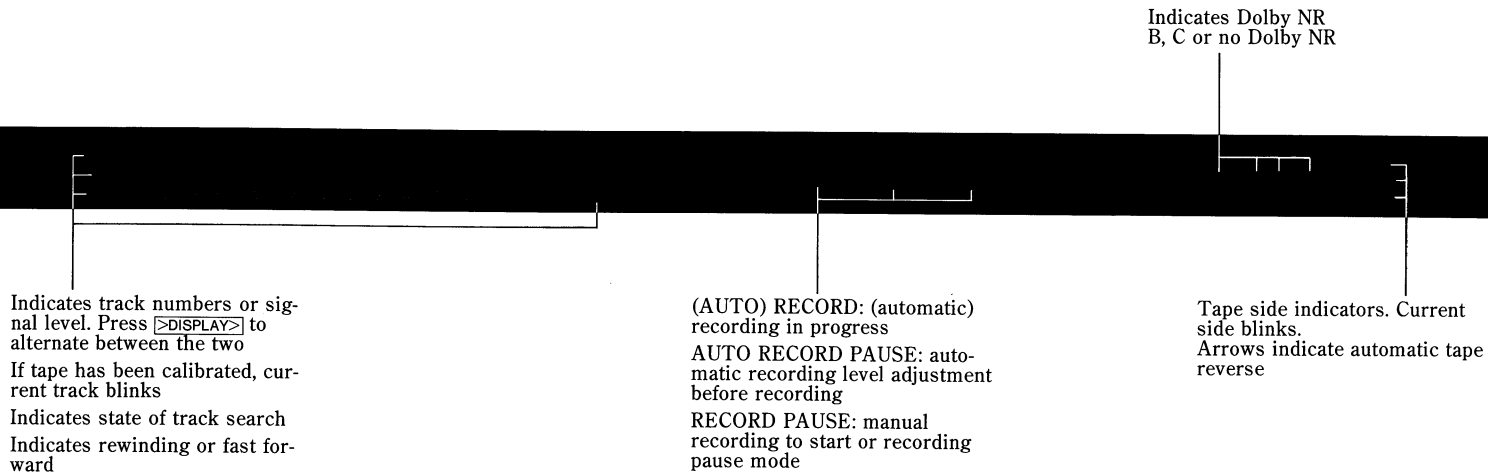
The left or right channel, as the case may be, will be retained on the display until you press **[STOP]**. Then you will see both channels again simultaneously.

Erasing tapes

Tapes can be erased in different ways:

- by recording without switching on a source to record from.
 - by setting the recording level to 0. To do so use the manual recording facility. This setting mutes the incoming signal totally.
 - by setting the LINE/MIC/AUX switch to MIC or AUX, provided of course the MIC/AUX socket is vacant.
-

Displayed cues and symbols



The display on the front of the Beocord gives information about the operational status of the system.

The cues and symbols displayed will not all be visible at the same time.

Using the Beocord 5500 in conjunction with Beosystem 5000

The Beocord 5500 can of course be used in conjunction with the Beosystem 5000 as well. However, if you want to operate it using the Master Control Panel 5000, the functions available are of course restricted to those

available on the Master Control Panel 5000.

The following instructions imply that you have connected the Beocord 5500 to the TAPE 1 socket in Beomaster 5000.

Playback

Start playing:	Press TAPE 1
Stop playing:	Press STOP
Rewinding or winding:	Press << or >>
Stepping through tracks:	Press RETURN or ADVANCE
Finding a specific track:	Press TRACK , required number, then TAPE 1
Programming tracks:	Press TRACK , required number, then STORE , TRACK , required number, then STORE , TRACK ... and so forth

Recording

Use buttons with green text on primary panel:

Start recording:	Press RECORD twice
Pause or stop recording:	Press TAPE STOP once or twice
Return to start of latest recording:	Press RETURN

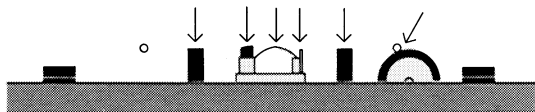
Maintenance

The tape path, i.e. tape heads, pinch rollers and other parts which the tape touches during play or recording, should be cleaned every now and then to avoid dust and fluff building up on them.

Use a tape head maintenance kit or simply a wool stick dipped in a rinsing fluid designed for

this purpose. The cleaning process must be carried out while there is no cassette in the compartment.

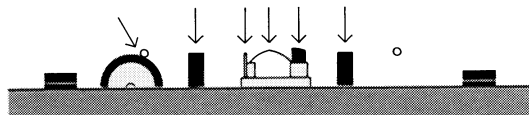
Do not use denatured alcohol to clean any parts of the Beocord 5500.



Cleaning the tape head and pinch rollers is easier when they are in an exposed position.

Press **[STOP]** and while keeping it depressed, press **[PLAY]**. Then release **[STOP]**.

The tape head and the right-hand pinch roller are now exposed, enabling you to clean them as prescribed.



Press **[TURN]** to expose and clean the left-hand pinch-roller.

During this process the pinch rollers will be turning.

Press **[STOP]** when you have finished the cleaning process.

Index of buttons and controls



Front panel

Left-hand side (OPEN) 8
 Right-hand side (PLAY ●) 9



Drawer

LINE/MIC/AUX switch 8, 13, 20
MIC/AUX socket 8, 13, 20

RECORD buttons:

REC LEVEL 14, 15
DOLBY NR 18
  14, 15
REC LOCK 16
PPM MEMO 15, 16
MANUAL REC 14, 16, 19
AUTO REC 14, 15, 16, 19

CONTROL buttons:

START GO 10
TURN 11, 23
AUTO REV 11
>DISPLAY> 21
MEMO SET 12
MEMO GO 12
  12, 19
PLAY 10, 11, 23
RETURN 12
STOP 10, 14, 15, 16, 19, 23
ADVANCE 12

Technical specifications

Beocord 5500	
Type no.	4931/4932/4934/4935
Compact cassette	C46-C60-C90-C120
Recording system	HX PRO
Noise reduction system	Auto Dolby B and C
Tape switch	Auto ferro/chrome/metal
Tape head	Sendust
Wow and flutter DIN	<0.15%
Wow and flutter WRMS	<0.09%
Speed deviation	<±1.5%
Fast forward and rewind	75 sec.
Frequency range chrome	30-18,000 Hz ±3 dB
S/N ratio CCIR/ARM:	
Metal Dolby NR	B: >64 dB, C: >73 dB
Chrome Dolby NR	B: >65 dB, C: >74 dB
Ferro Dolby NR	B: >63 dB, C: >72 dB
Channel separation	>35 dB
Erasure	>70 dB
Erasure frequency	96 kHz
Radio input, Line	100 mV/28 kohms
Microphone input	0.03 mV/3 kohms
AUX input	100 mV/28 kohms
Radio output	880 mV/1 kohms
Power supply	4931: 220 volts
	4932/4935: 240 volts
	4934: 100 volts
Power frequency	50-60 Hz
Power consumption	Max. 25 watts
Dimensions W x H x D	42 x 7.5 x 32.5 cm
Weight	8.35 kg
Subject to change without notice	

This Beocord fulfils the conditions stated in the EEC directive 82/499 concerning radio

frequency interference.

For the UK market only**IMPORTANT**

The wires in the mains lead supplied with this apparatus are coloured in accordance with the following code:

Blue: Neutral

Brown: Live

As the colours of the wires in the mains lead may not correspond with the coloured markings identifying the terminals in your unit, proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

Ensure that your equipment is connected correctly. If you are in any doubt, consult a qualified electrician.

International guarantee

This Bang & Olufsen product carries a guarantee against defects in workmanship and materials. It is a national guarantee, extended by Bang & Olufsen to the country in which the product was bought. The terms of the guarantee apply principally to the country of purchase but will be met by authorized Bang & Olufsen dealers in other countries. The guarantee period

applying to the country of purchase takes priority over guarantee periods applying in other countries, even where differences exist.

In order to obtain service under this guarantee from a dealer in a country other than that in which the product was bought, the guarantee form must be completed in full and presented to the dealer.

BANG & OLUFSEN
DK-7600 STRUER
DENMARK

3504347

03-88

How to use the manuals

There are two manuals for the Beogram CD 5500 compact disc player:

- A Beogram CD 5500 manual which explains how to connect the compact disc player to the Beomaster 5500 and how to use the controls on the compact disc player itself.
- A supplement to the Master Control Panel 5500 manual which explains how to operate the Beogram CD 5500 using the buttons on the Master Control Panel 5500.

If your Master Control Panel 5500 manual refers to a Beogram CD 50 in the compact disc section,

ignore it and refer instead to the supplement to the Master Control Panel 5500 manual.

Setting up, 5

Loading and unloading a compact disc, 8

Playing a compact disc, 9

Switching off, 10

Displayed cues and symbols, 11

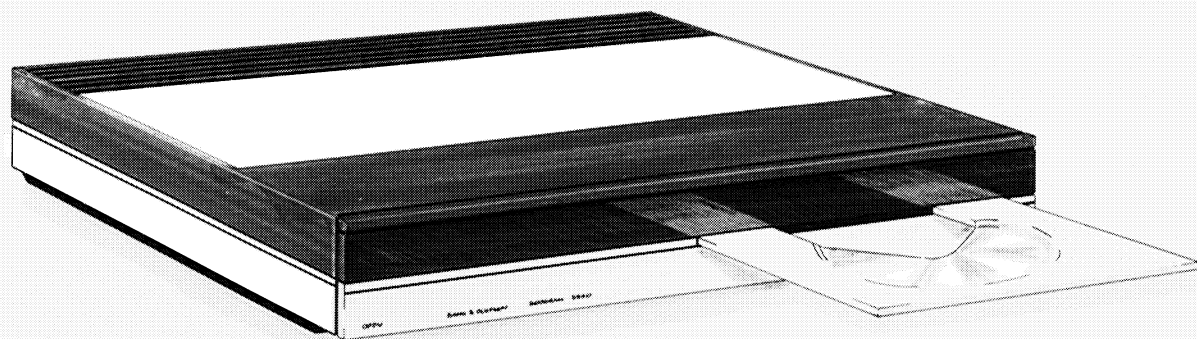
**Using the Beogram CD 5500 in
conjunction with the Beosystem 5000, 12**

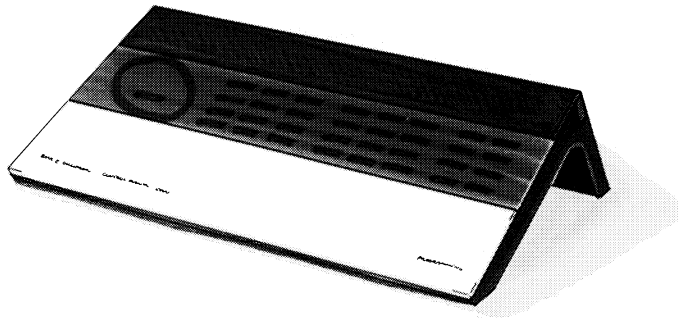
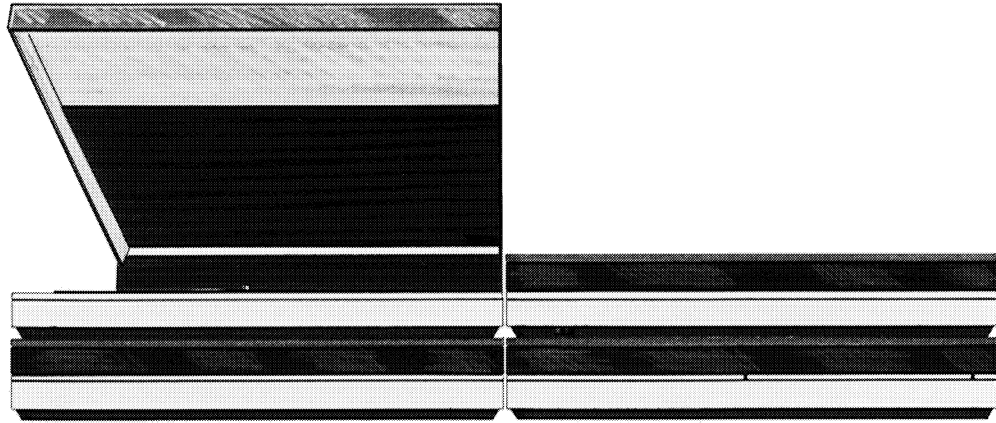
Maintenance, 14

Technical specifications, 15

The black and yellow label on the compact disc player serves as a warning that the apparatus contains a laser system and is classified as a class 1 laser product. In case of any trouble with the compact disc player, please contact your Bang & Olufsen dealer. The apparatus must be opened by qualified servicemen only.







Beosystem 5500

The Beogram CD 5500 is a newly developed Bang & Olufsen compact disc player designed primarily to suit the Beosystem 5500. When connected to the Beomaster 5500, the Beogram CD 5500 can be remote controlled using the Master Control Panel 5500.

We suggest you read the manuals in order to acquaint yourself with all the functions and facilities offered by the Beogram CD 5500.

Table of contents

Setting up	5
Adjustment to room temperature	5
Making the compact disc player ready for use	5
Where to put the compact disc player	6
Connection to Beomaster	6
Digital output	7
Stand-by mode	7
Loading and unloading a compact disc	8
Playing a compact disc	9
Switching off	10
Displayed cues and symbols	11
Using the Beogram CD 5500 in conjunction with the Beosystem 5000	12
Maintenance	14
Technical specifications	15

Setting up

Adjustment to room temperature

If the compact disc player is exposed to low temperatures, for instance during transport, and is then placed in a warm room, condensation can occur within the mechanism. If this happens, it

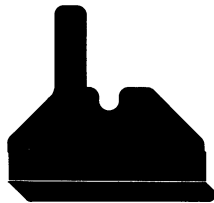
will not play until the humidity falls to an acceptable level.

Therefore, allow the compact disc player to acclimatise to normal room temperature for at least an hour or two before use.

Making the compact disc player ready for use

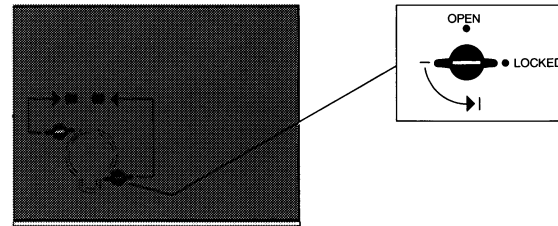
Removing disc tray protection:

Press the left-hand side of the aluminium front panel to pop out the disc tray, then remove the cardboard. Keep the cardboard in a safe place for later use.



Removing transport screws:

Carefully turn the compact disc player upside down. Loosen the two transport screws on the base and place them in their storage holes as indicated by the drawing on the base.



If you ever have to transport the compact disc player, we strongly recommend that you reinsert

both the cardboard protecting the disc tray and the two transport screws.

Where to put the compact disc player

The compact disc player must be placed horizontally on a stable surface. Make sure to put it in a place where ventilation cannot be impeded.



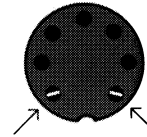
Leave a space of approximately 15 cm in front of the compact disc player so that the disc compartment can open freely.

Connection to Beomaster

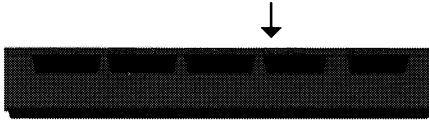
Plug the 7 pin DIN cable into the CD socket on the Beomaster 5500.

For use with another receiver, e.g. one having a 5 pin DIN socket or phono sockets, do as follows:

Unscrew the two extra pins with grooves using a tiny screwdriver and plug the cable into the 5 pin DIN socket on the receiver.



Digital output



The digital output on the rear panel is intended for possible future digital equipment.

Stand-by mode

Once connected to the mains, the compact disc player will be in the stand-by mode and ready for operation. The stand-by mode is indicated by a tiny red light on the front panel.

The compact disc player is designed to be left in stand-by mode when not in use.

Loading and unloading a compact disc

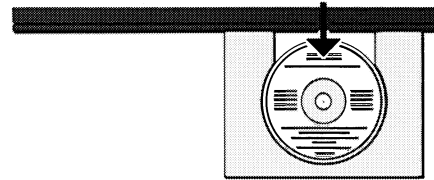
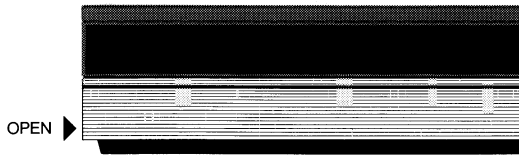
Press the left-hand side of the aluminium front panel to pop out the disc tray.

The compact disc must be placed in the circular recess with the printed side up.

Press the left-hand side of the aluminium front panel again to close the disc tray.

You can also close the compartment and start playing directly by gently pressing the front edge of the disc tray or the right-hand side of the aluminium front panel.

If left open for more than 3 minutes, the disc compartment will be closed automatically.



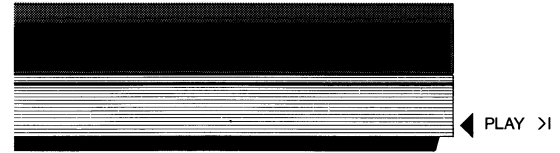
Unloading a compact disc!

Playing a compact disc

Gently tap the right-hand side of the aluminium front panel.

The compact disc player will register all the tracks on the compact disc and playing will begin almost immediately.

Press a second, third etc. time to step to the next tracks, or to step through all the tracks and back to the first track.



Switching off

Keep the right-hand side of the front panel depressed for 2 seconds.

Playing will stop and the compact disc player will return to the stand-by mode.

At the end of a compact disc, playing will stop automatically and the compact disc player will then revert to the stand-by mode. If left unused, the entire Beosystem 5500 will revert to the stand-by mode within approximately 30 minutes.



Displayed cues and symbols

Track numbers
Current track blinks
+ indicates any number beyond 14

Scanning in progress

Space function cut in

Compact disc player pausing

The display on the front of the Beogram CD 5500 will give you information about the operational status of the compact disc player.

The cues and symbols displayed will not all be visible at the same time.

Using the Beogram CD 5500 in conjunction with the Beosystem 5000

The Beogram CD 5500 can be used in conjunction with the Beosystem 5000 as well.

This means that you will be using a Master Control Panel 5000 to operate it.

The list below shows which buttons to use on the Master Control Panel 5000 to obtain the appropriate functions.

Start playing Press **AUX CD**.

Stop playing Press **STOP**.

*Before using any of the functions listed below, make sure that you have pressed **AUX CD** first.*

Stepping through tracks Press **ADVANCE** to step forwards and **RETURN** to step backwards.

Finding specific tracks Press **TRACK**, key in the required number, then press **AUX CD**.

Finding specific passages of music Press **>>** to search forwards and **<<** to search backwards. Press **STOP** to stop searching or **AUX CD** to start playing.

Programming a sequence of tracks Press **TRACK**, key in the required number, press **STORE**. Repeat this sequence for each track you want to include in a programmed sequence.

If you want to exclude a track from a programmed sequence, press **CLEAR** instead of **STORE**.

Press **TRACK**, **CLEAR** to cancel a programmed sequence.

Scanning a compact disc

Press **TRACK**, **0**, **STORE** to start scanning.

Press **TRACK**, **STORE** or **TRACK**, **CLEAR** to include or exclude tracks in a programmed sequence.

*Prolonging the pauses between tracks
(space function)*

Press **TRACK**, **0**, **CLEAR**. Repeat this sequence to cancel the space function.

Please note that the Master Control Panel 5000 display does not give you any information about track numbers and playing time. This means that you will have to rely on the Beogram CD

5500 display for track numbers, whereas information about playing time cannot be obtained. For this same reason the adding time function is not available.

Maintenance

Use a dry, soft cloth to wipe dust off the compact disc player. Any dust in the disc compartment should be carefully removed. Do not push down on the disc tray.

Do not use denatured alcohol to clean the compact disc player.

Technical specifications

Beogram CD 5500	
Type no.	5131-5132-5134-5135
Frequency range	3-20,000 Hz ± 0.3 dB
Signal-to-noise ratio	>100 dB/110 dB A-weighted
Dynamic range	>96 dB
Harmonic distortion incl. noise	<0.0025% at 0 dB
	<0.025% at -20 dB
Channel separation	>101 dB
Channel difference	<0.08 dB
Converter system	2 x 16 bit, 4 x oversampling 176.4 kHz
Low pass filter	Digital + Bessel/elliptical analog
Damping >20.000 Hz	>50 dB
Phase error between L and R	0 degree at 20-20,000 Hz
Output, analog	1.3 V RMS at 0 dB
Output, digital	For digital equipment
Power supply	5131: 220 (100-110-120-240) V
	5132/5135: 240 (100-110-120-220) V
	5134: 100 V
Power frequency	50-60 Hz
Power consumption	23 watts
Dimensions W x H x D	42 x 7.5 x 32.5 cm
Weight	6.3 kg
Subject to change without notice	



This Beogram fulfils the conditions stated in the EEC Directive 82/499 concerning radio frequency interference.

International guarantee

This Bang & Olufsen product carries a guarantee against defects in workmanship and materials. It is a national guarantee, extended by Bang & Olufsen to the country in which the product was bought. The terms of the guarantee apply principally to the country of purchase but will be met by authorized Bang & Olufsen dealers in other countries. The guarantee period

applying to the country of purchase takes priority over guarantee periods applying in other countries, even where differences exist.

In order to obtain service under this guarantee from a dealer in a country other than that in which the product was bought, the guarantee form must be completed in full and presented to the dealer.

BANG & OLUFSEN
DK-7600 STRUER
DENMARK

3505518

08-88

How to use this manual

*This manual explains how to set up
and operate the **Beogram 5500** record player.*

The instructions refer to the buttons under the dust cover. Each button to be pressed is indicated as a small box with the appropriate text or symbol inside it.

For remote controlled operation, please refer to the Master Control Panel 5500 manual.

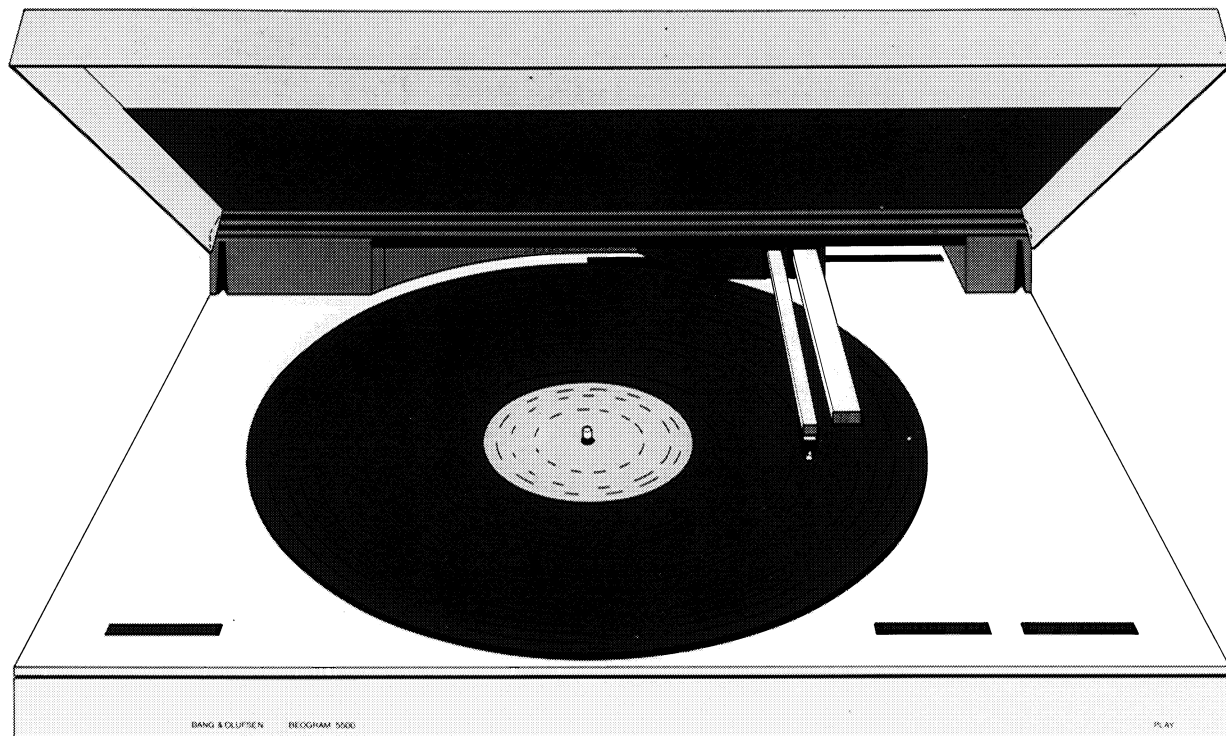
Setting up, 5

Playing a record, 8

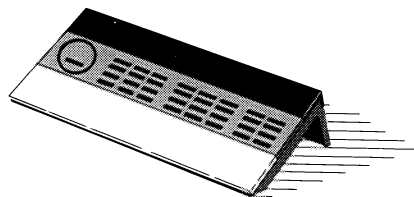
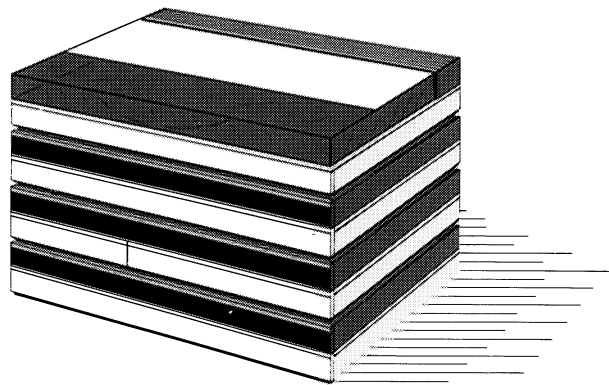
Maintenance, 10

Technical specifications, 11

This record player fulfils the conditions stated in the EEC directive 82/499 concerning radio frequency interference.



Beosystem 5500



The Beosystem 5500 is easy and very convenient to use – you can in fact operate the whole system without leaving your chair.

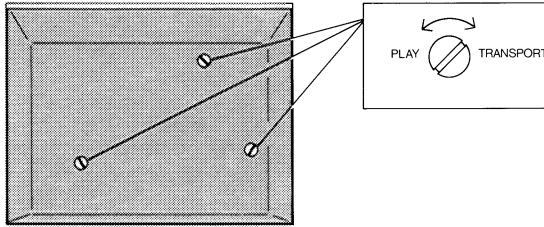
The Master Control Panel 5500 is the key to the system and it communicates with the brain of the system, the Beomaster 5500. Together they form the basis of the system. The other units in the system, the Beocord 5500, the Beogram 5500 and the Beogram CD 5500, are modules with which you can extend your Beosystem 5500 or use in conjunction with other systems, if you like.

Table of contents

Setting up	5
Loosening the transport screws	5
Where to put the record player	5
Making the record player ready for play	6
Connection to receiver	6
Stand-by mode	6
Adjusting stylus pressure	7
Playing a record	8
Start playing	8
Setting speed	8
Pausing	8
Stepping through the record	9
Stop playing	9
Repeating a record	9
Maintenance	10
Stylus	10
Record player	10
Technical specifications	11

Setting up

Loosening the transport screws



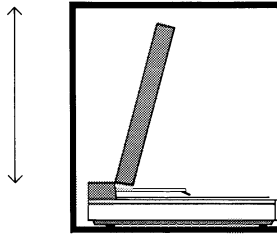
Before using the record player you must loosen

the three transport screws underneath it.

Place the record player on a table, letting it stand out beyond the edge of the table. Hold the record player firmly and turn it carefully to locate the three transport screws. Using a screwdriver or a coin turn each screw anti-clockwise until it comes loose (several turns). The screws cannot be removed from the holes.

If you ever have to carry the record player again, we strongly recommend that you retighten the three transport screws.

Where to put the record player



The record player must be placed horizontally on a stable surface. Allow a space of at least 30 cm above the record player so that the dust cover can open freely. Avoid placing it in direct sunlight or near radiators or other sources of heat.

If your Beogram 5500 is to be used in conjunction with other units in the Beosystem 5500, you may place the Beogram on top of any of the other units, as in a rack system, or you may place them next to one another.

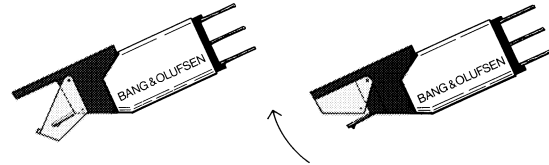
Making the record player ready for play

When removing the foam rubber pieces protecting the tonearm, be careful not to touch the stylus.

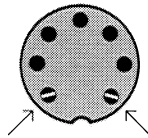
Place the turntable platter on the turntable platform.

Check that the turntable can move freely with a kind of springy movement.

Raise the stylus guard on the cartridge.



Connection to receiver



Plug the 7 pin DIN cable into the PHONO socket on the Beomaster 5500.

For use with another receiver, e.g. one having a 5 pin DIN socket or phono sockets, do as follows:

Unscrew the two extra pins with grooves using a tiny screwdriver and plug the cable into the 5 pin DIN socket on the receiver. If your receiver has phono sockets, connect an adaptor (Bang & Olufsen part no. 6270208) and plug it into the phono sockets on your receiver.

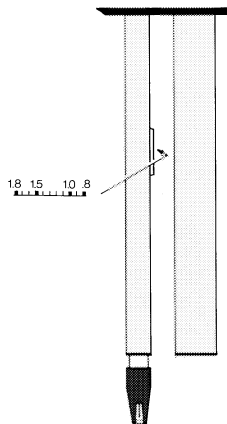
Stand-by mode

Once connected to the mains supply, the record player is in so-called stand-by mode and ready to be operated. If connected to the Beomaster 5500, it can be remote-controlled by using the Master Control Panel 5500.

At the end of a record, playing stops automatically. The record player then reverts to stand-by mode and within 30 minutes the other units in the Beosystem 5500, if any, will also switch to stand-by mode.

Adjusting stylus pressure

The stylus pressure must be adjusted to match the type of Bang & Olufsen MMC cartridge fitted on the tonearm.



Set the slider on the right-hand side of the tonearm to the appropriate value:

- MMC 1 = 1.0 gram
- MMC 2 = 1.0 gram
- MMC 3 = 1.2 grams
- MMC 4 = 1.2 grams
- MMC 5 = 1.5 grams

If you want to check the stylus pressure using a stylus pressure gauge, place the gauge underneath the stylus, press **LIFT** and keep the button depressed for more than 2 seconds. The tonearm will then lower onto the gauge, and you can read off the pressure on the gauge.

Playing a record

Start playing

Place the record on the turntable.

Press **[<TURN]** if you want to make the turntable rotate in order to clean the record. The tonearm will then move towards the lead-in groove of the record and be hovering there while the turntable is rotating.

Press **[PLAY]** to start playing.

You may also tap the right-hand side of the front panel where it is marked **PLAY** to start playing.

If there is no record on the turntable, the turntable will do only a few rotations, and the tonearm will not leave its resting position.

Setting speed

33

45

The record player automatically registers the size of the record and determines the speed accordingly (33 or 45 rpm). This is indicated on the indicator arm parallel to the tonearm.

However, you may have to set the speed

manually, if for instance your record is one of LP size but requiring 45 rpm. To do so, start playing by pressing **[PLAY]** and then press **[45]** (or **[33]** as the case may be). You can change the speed any time during play, if you like.

Pausing

Press **[LIFT>]** to lift the tonearm off the record. The turntable will continue rotating and the tonearm will be hovering above the groove where it was lifted.

Press **[PLAY]** to lower the tonearm and continue playing.

If you don't resume playing within approximately 8 minutes of lifting the tonearm, the record player will automatically revert to stand-by mode.

Stepping through the record

Without stopping the record and without steering the tonearm manually, you can move the tonearm to any position on the record you like and resume playing from there.

Press **<TURN** to move the tonearm towards the centre of the record, or press **LIFT>** to move the tonearm towards the edge of the record.

Keep **<TURN** or **LIFT>** depressed until you find the spot where you want playing to be resumed. Then release the button and press **PLAY** to lower the tonearm onto the record and resume playing.

During this step procedure a tiny beam of light helps you find the spot desired.

Stop playing

Press **●** to stop playing the record.

The tonearm lifts off the record and automatically reverts to its resting position. Then the record player switches to stand-by mode.

If you keep **●** depressed for more than 2 seconds, the other units in the Beosystem 5500, if any, will also switch to stand-by mode.

Repeating a record

You can, if you like, make the record player play a record up to 7 times in a row.

Press **PLAY** once to start playing. Then press **PLAY** again the number of times you want the record to be repeated.

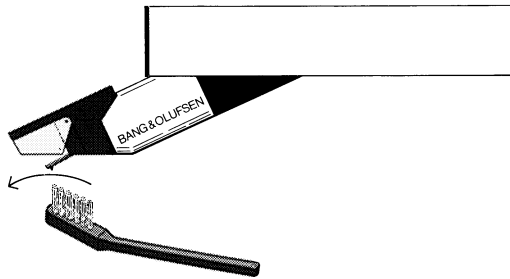
If a record is going to be repeated, the speed indicator will blink.

If you use **<TURN**, **LIFT>** or **●**, the repeat function will be cancelled.

Maintenance

Stylus

Fluff and dust can build up on the tip of the stylus and cause distortion during play. Therefore, clean the stylus every now and then using the tiny brush provided.



Carefully stroke the stylus from the back of the cartridge towards the front.

Do not use any chemical fluids to clean the stylus.

Reducing the amount of dirt and dust on the record to a minimum is of course the best way to keep the stylus clean and thus to ensure optimum performance. For this purpose we recommend you use the Bang & Olufsen LP Protector record maintenance kit.

The Bang & Olufsen LP Protector is available from your Bang & Olufsen dealer.

Record player

Wipe off dust with a soft, dry cloth. Use window cleaner to remove grease stains.

Be careful not to touch the cartridge and the stylus.

Never use denatured alcohol to clean any parts of the record player.

Technical specifications

Beogram 5500	
Type no.	5941/5944/5945
Tonearm	Tangential Optimum Pivot Point
Motor	Servo-controlled DC
Wow and flutter, DIN	<0.06%
Wow and flutter, WRMS	<0.03%
Rumble DIN weighted	>80 dB
Rumble DIN unweighted	>55 dB
Speeds	33-45 rpm
Speed deviation	<±0.2%
Power supply	5941: 190-265 V 5944: 90-130 V 5945: 190-265 V
Power frequency	50-60 Hz
Power consumption	<10 watts
Dimensions W x H x D	42 x 7.5 x 32.5 cm
Weight	5.3 kg
MMC 4 cartridge	
Recommended tracking force	12 mN/1.2 grams
Frequency range	20-20,000 Hz ±2.5 dB
Channel separation:	
1000 Hz	>22 dB
50-15,000 Hz	>17 dB
Channel difference	<2 dB
Stylus	Elliptical diamond 6 x 17 µm
Cantilever	Tapered aluminium tube
Effective tip mass	0.4 mg
Compliance	25 µm/mN
Sensitivity mV/cm/s RMS	>0.6 mV
Output 5 cm lateral RMS	>2.12 mV
Cartridge weight	1.6 grams
Subject to change without notice	

For the UK market only**IMPORTANT**

The wires in the mains lead supplied with this apparatus are coloured in accordance with the following code:

Blue: Neutral

Brown: Live

As the colours of the wires in the mains lead may not correspond with the coloured markings identifying the terminals in your unit, proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

Ensure that your equipment is connected correctly. If you are in any doubt, consult a qualified electrician.

International guarantee

This Bang & Olufsen product carries a guarantee against defects in workmanship and materials. It is a national guarantee, extended by Bang & Olufsen to the country in which the product was bought. The terms of the guarantee apply principally to the country of purchase but will be met by authorized Bang & Olufsen dealers in other countries. The guarantee period

applying to the country of purchase takes priority over guarantee periods applying in other countries, even where differences exist.

In order to obtain service under this guarantee from a dealer in a country other than that in which the product was bought, the guarantee form must be completed in full and presented to the dealer.

BANG & OLUFSEN
DK-7600 STRUER
DENMARK

3505455

01-88